

Design Standards Letter

Letter Number: S-2023-01

Letter Date: 10/21/2022

Effective Date: 01/01/2023

Section: 102, 104, 617, 703, 712, 806, 1042

Subject: Revised Supplement to the 2022 Standard Specifications

TO: All Central and District Offices

FROM: Sarah Kleinschmit

DATE: October 21, 2022

SUBJECT: Standard Specifications Letter No. 1, 2023

The Supplemental Revisions to the 2022 *Missouri Standard Specifications for Highway Construction*, effective January 1, 2023, are now available on MoDOT's [website](#).

Questions regarding the Supplemental Revisions to the Missouri Standard Specifications should be directed to Jen Haller, Central Office, Engineering Policy Services, at 573-526-2918 or myself at 573-751-7412.

MAJOR REVISIONS:

SECTION 104 SCOPE OF WORK

Sec 104.3.7.1 Preliminary Maintenance. Add as new section.

SECTION 703 CONCRETE MASONRY CONSTRUCTION

Sec 703.3.3 Placing Concrete. Add new second sentence, "The concrete temperature shall not exceed 90°F at the time of placement."

MINOR REVISIONS:

SECTION 102 BIDDING REQUIREMENTS AND CONDITIONS

Sec 102.12.2.1 Delete entire section.

Sec 102.12.2.2 Renumber to *102.12.2.1*.

Sec 102.12.2.3 Renumber to *102.12.2.2*.

SECTION 617 CONCRETE TRAFFIC BARRIER

Sec 617.10.3.1 In the first sentence, change “Class B” concrete to “pavement concrete” and add “Class” in front of B-1 Concrete.

SECTION 712 STRUCTURAL STEEL CONSTRUCTION

Sec 712.7.2 Snug Tightness of Connections. In the sixth sentence change “five percent or five” to “three” bolts and remove “(whichever is less)”.

Sec 712.7.3 Bolt Tension. In the sixth sentence add “for bolts up to and including 1 ¼-inch diameter and within approximately 15 seconds for larger bolts” after 10 seconds.

Sec 712.7.6 Turn-of-Nut Method. In the explanatory note under the chart, change the second sentence to “For all required nut rotations, the tolerance will be minus 0 degrees and plus 60 degrees (1/6 turn).”

Sec 712.7.7 Load Indicating Bolt Method. In the first sentence add “1.05 times” between “minimum” and “the bolt tension”.

Sec 712.7.9 Bolt Tension Calibration Device. In the third sentence change “may be tested using direct tension indicators (DTI). The DTI shall be calibrated in the Skidmore-Wilhelm Calibrator using longer bolts” to “short bolt setup shall have pre-installation job site rotational-capacity testing done according to ASTM F3125 Annex A2, Method 2 Short Bolt Test Procedure”.

Sec 712.7.10 Rotational-Capacity Testing. In the first sentence add “3 bolts of” between “on” and “each”.

Sec 712.7.12 Inspection. In the second bullet (b) change “Five” to “Three”. Change the tightening device to “the measuring torque wrench”. Delete the fourth sentence. Modify “five” to “three” values obtained. The highest value will now be taken as the job inspecting torque.

SECTION 806 POLLUTION, EROSION AND SEDIMENT CONTROL

Sec 806.10.3.2 In the first sentence, add “if required by the engineer” after geotextile fabric. In the last sentence, change “straw layer” to “vegetative mulch.”

Sec 806.80.1 In the first sentence, delete all contents after “determined by the engineer.”

Sec 806.80.3 In the last sentence, change “shall be backfilled with clean rock of sufficient size to withstand normal stream flows” to “for the convenience of the contractor shall be installed in accordance with Sec 806.100 and any applicable permits.”

SECTION 1042 HIGHWAY SIGNING MATERIAL

Sec 1042.3.1.1 In the first sentence, add “or ASTM B 921, Class 2” after ASTM B 449, Class 2. Add “or ASTM B 921” after Appendix X2 at the end of the first sentence.

SKK/JNH